

Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims

1-87. (canceled)

88. (currently amended) A guidewire, comprising:

an elongate core wire having a distal portion;

a metallic tubular member disposed over the distal portion, the tubular member having a proximal end and a distal end;

wherein the tubular member has a plurality of slots defined therein;

an edge-wound coil disposed between the core wire and the tubular member, the coil having a distal end that is disposed adjacent the distal end of the tubular member and a proximal end disposed distally of the proximal end of the tubular member; [[and]]

wherein the edge-wound coil is formed from a wire having a greater dimension in the radial direction than in the axial direction; and

a material disposed between the core wire and the tubular member, wherein the material at least partially fills at least some of the slots.

89. (previously presented)The guidewire of claim 88, wherein the core wire includes stainless steel.

90. (previously presented)The guidewire of claim 88, wherein the tubular member includes nickel-titanium alloy.

91. (previously presented)The guidewire of claim 88, wherein the tubular member includes a super-elastic nickel-titanium alloy.

92. (previously presented) The guidewire of claim 88, wherein the edge-wound coil includes a radiopaque material.

93. (previously presented) The guidewire of claim 88, wherein the edge-wound coil is attached to the core wire, the tubular member, or both with an adhesive at the proximal end of the edge-wound coil.

94. (previously presented) The guidewire of claim 88, wherein the edge-wound coil is attached to the core wire, the tubular member, or both with an adhesive at the distal end of the edge-wound coil.

95. (previously presented) The guidewire of claim 88, wherein the edge-wound coil is configured to increase the radiopacity of the guidewire.

96. (previously presented) The guidewire of claim 88, wherein the edge-wound coil is configured to have a minimal impact on the flexibility of the guidewire.

97. (previously presented) The guidewire of claim 88, wherein the edge-wound coil is configured to improve torsional stiffness, torsional strength, or both of the guidewire.

98. (previously presented) The guidewire of claim 88, wherein a space is defined within the tubular member between the proximal end of the edge-wound coil and the proximal end of the tubular member, and wherein the space is substantially free of any other structures of the guidewire.

99. (currently amended) A guidewire, comprising:
an elongate core wire having a distal portion;
a metallic tubular member disposed over the distal portion, the tubular member having a proximal end and a distal end;
wherein a plurality of slots are formed in the tubular member;

a radiopaque coil disposed between the core wire and the tubular member, the coil having a distal end that is disposed at the distal end of the tubular member and a proximal end disposed distally of the proximal end of the tubular member;

wherein the guidewire is free of another coil between the core wire and the tubular member other than the radiopaque coil; and

wherein the radiopaque coil is an edge-wound coil that is configured to increase the radiopacity of the guidewire while have a minimal impact on the flexibility by being formed from a wire having a greater dimension in the radial direction than in the axial direction.

100. (previously presented) The guidewire of claim 99, wherein the edge-wound coil is configured to improve torsional stiffness, torsional strength, or both of the guidewire.

101. (previously presented) The guidewire of claim 99, wherein a space is defined within the tubular member between the proximal end of the coil and the proximal end of the tubular member, and wherein the space is substantially free of any other structures of the guidewire.

102. (currently amended) A guidewire, comprising:
an elongate core wire having a distal portion;
a metallic tubular member disposed over the distal portion, the tubular member having a proximal end and a distal end;

wherein a plurality of slots are formed in the tubular member;

wherein the core wire has an exterior surface, wherein the tubular member has a proximal end, and wherein the exterior surface of the core wire adjacent the proximal end of the tubular member is free of a coil;

means for visualizing the guidewire disposed between the core wire and the tubular member, wherein the means for visualizing the guidewire is positioned between the distal end of the tubular member and a location distal of the proximal end of the tubular member; and

wherein means for visualizing the guidewire includes an edge-wound coil.

103. (previously presented) The guidewire of claim 102, wherein the edge-wound coil is formed from a wire having a greater dimension in the radial direction than in the axial direction.

104. (previously presented) The guidewire of claim 102, wherein the edge-wound coil is configured to have a minimal impact on the flexibility of the guidewire.

105. (previously presented) The guidewire of claim 102, wherein the edge-wound coil is configured to improve torsional stiffness, torsional strength, or both of the guidewire.

106. (previously presented) The guidewire of claim 102, wherein a space is defined within the tubular member between the proximal end of the edge-wound coil and the proximal end of the tubular member, and wherein the space is substantially free of any other structures of the guidewire.